

Medical & ITE

General Purpose

Rated30WMax.40WPeak45WSNP-HF3Series



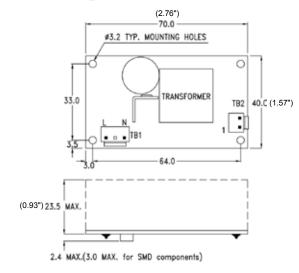
1.57" x 2.76" x 0.93"

General Specifications:

Input voltage	
Input frequency	47 Hz to 63 Hz
Inrush current	< 40/80A at 115/230VAC
Hold up time	
Over load/Short citcuit protection	1 auto recovery
Over voltage protection	latch off
Operating temperature	-40°C to 70°C
	derating: $2.5\% / °C > 50°C$
Storage temperature	40°C to +85°C

Mechanical Specifications:

-Jim-



Features:

- Peak load (1.5 x rated current, Vo=rated for 5 sec)
- Design for BF application
- Convection cooling for Rated power
- No load < 0.3W
- (-A) for no burst sound
- For home healthcare application
- -40° C to $+70^{\circ}$ C operating temperature
- 5,000m operation altitude

Applications:

- For peak load applications, such as motor drive, coffee machine, vending machine, gaming machine, and other industrials.
- For input class II and EMI class B application, such as home healthcare device, and other medical devices.

EN55011 "B", EN61000-3-3
EN61000-3-2, class A
EN61000-4-2,-3,-4,-5,-6,-8,-11
EN 62368-1, 2 nd edition
ANSI/AMMI/CSA/EN60601-1, 3.1 edition
CB report, CE mark, RM report/file
ENERGY STAR
for computers version 6.0
for displays version 6.0
ErP regulation EC(No) 1275/2008

Notes:

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- 1. Size:
- 1.57" x 2.76" x 0.93"
- 2. Mounting Hole: 33 x 64 (mm)
- Connectors: AC input: JST B2P3-VH or Molex 5277-02A or equivalent DC output: JST B2P-VH or Molex 5273-02A or equivalent

. (Output Pin assignment:							
	1	2						
	Vo	GND						

Packing: Net weight: 61 g approx./unit Gross weight: 12 kg approx./carton, 150 units/carton Carton size (mm): 412 (L) x 327 (W) x 283 (H)

10 years Warranty (contact Skynet's Distributors for details)

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Output Specifications:

MODEL	OUTPUT	LOAD				INITIAL	STEP EFFICIENCY			AVERAGE
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	@ 20% LOAD	@ 50% LOAD	@ 100% LOAD	EFFICIENCY
SNP-HF37 SNP-HF37-A	+12V	0A	2.5A	3.33A	3.75A	+11.8V~+12.2V	86% 72%	87% 80%	86% 82%	86% 77%
SNP-HF38 SNP-HF38 -A	+15V	0A	2A	2.67A	3A	+14.8V~+15.2V	86% 74%	87% 81%	86% 82%	86% 78%
SNP-HF39 SNP-HF39 -A	+24V	0A	1.25A	1.67A	1.88A	+23.8V~+24.2V	86% 74%	87% 80%	86% 84%	86% 78%
SNP-HF3T SNP-HF3T-A	+48V	0A	0.63A	0.83A	0.94A	+47.6V~+48.4V	86% 79%	87% 85%	86% 86%	86% 83%

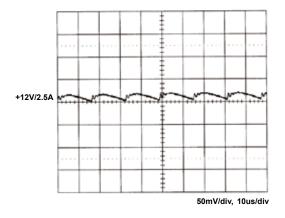
Note:

- 1. Standby Power Cosumption with System:
- For computers and displays, ENERGY STAR in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode. 2. **Output Load:**
- 30W for convection cooling; 40W for forced air cooling.
- 3. **Peak Load Duration:** Peak 45W can last for 5 sec.
- 4. **Isolation Grade:**
- 4. Isolation Grade
 - Primary \longleftrightarrow Ground: 1MOPP (1500Vac)Primary \longleftrightarrow Secondary: 2MOPP (4000Vac)Secondary \longleftrightarrow Ground: 1MOPP (1500Vac)
- 5. Leakage Current:
- Earth leakage current < 300uA
- Touch current < 100uA
- 6. EMI Grounding:
- If there is a metal sheet under the power supply, connect the EMI ground to that metal sheet.
- 7. Model Selection:
- Most of power supplies will create audible burst sound at light load, if the application wants to meet input power < 0.5W at standby mode. SNP-HF3x is for ITE & Medical applications which require standby mode.
- SNP-HF3x-A is for ITE & Medical applications but without burst sound and no standby mode.
- 8. The safety application will be proceeded upon request.
- -Jim-

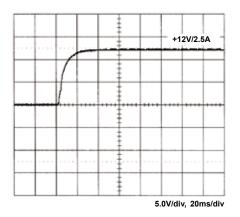


Performance for SNP-HF37-A:

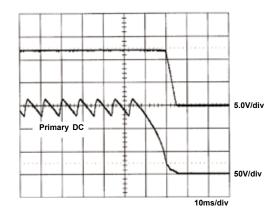
1. Switching frequency ripple



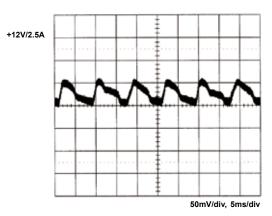
3. Output turn on wave form



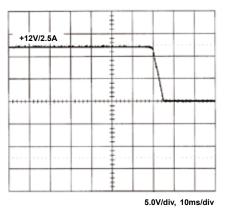
5. Hold-up time



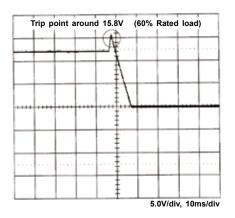
2. Line frequency ripple



4. Output turn off wave form



6. Over voltage protection



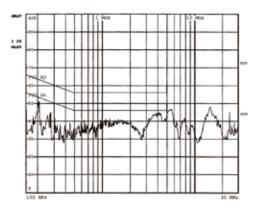
⁻Jim-



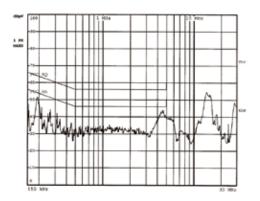
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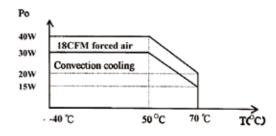
7. FCC B Class I



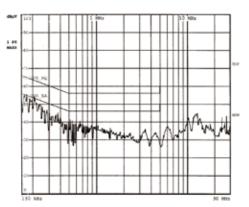
9. FCC B Class II



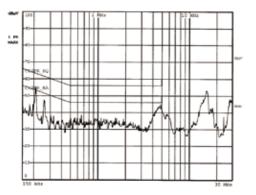
11. Power derating curve



8. EN55011 22 B Class I



10. EN55011 22 B Class II



12. Torque capability

